ELSEVIER SCIENCE
IRELAND

Plant Science 98 (1994) 221–222

PLANT SCIENCE

Volume contents

Volume 98 (1994)

PHYSIOLOGY AND BIOCHEMISTRY

A chloroplast mutation in *Nicotiana tabacum* L. which has temperature-sensitive effects on germination and seedling development
E.K. Archer (Hartford, CT) 1–6

Differential expression of glutamine synthetase genes during the senescence of *Arabidopsis thaliana* rosette leaves
W.R. Bernhard, P. Matile (Zürich, Switzerland) 7–14

Purification, characterization and activation by anions of an aspartic proteinase isolated from bran of soft wheat
L. Galleschi, F. Felicioli (Pisa, Italy) 15–24

GENETICS AND MOLECULAR BIOLOGY

Bacterial induced activation of an *Arabidopsis* phenylalanine ammonia-lyase promoter in transgenic tobacco plants
Y. Huang, J.H. McBeath (Fairbanks, AK) 25–35

The effect of aluminium treatment on wheat roots: expression of heat shock, histone and SHH genes
K.D. Richards, R.C. Gardner (Auckland, New Zealand) 37–45

Identification of a *trnH* (GUG) gene and of several pseudogenes downstream of *psbA* gene in the common bean chloroplast genome
O. Carelse, C.J. Chetsanga, M.V. Mubumbila (Harare, Zimbabwe) 47–52

Expression patterns of two starch biosynthetic genes in in vitro cultured cassava plants and their induction by sugars
S.N.I.M. Salehuzzaman, E. Jacobsen, R.G.F. Visser (Wageningen, The Netherlands) 53–62

CELL TISSUE STUDIES IN VITRO

Plant regeneration from suspension cultures of *Allium fistulosum* and an *A. fistulosum* × *A. cepa* interspecific hybrid
P. Song, E.B. Peffley (Lubbock, TX) 63–68

High frequency shoot regeneration and *Agrobacterium*-mediated transformation of chrysanthemum (*Dendranthema grandiflora*)
L.A. Urban, J.M. Sherman, J.W. Moyer, M.E. Daub (Raleigh, NC) 69–79

Differential exhibition of photoreversible phytochrome in callus from two woody species, *Actinidia deliciosa* and *Olea europaea*
R. Muleo, E. Rugini, B. Thomas (Pisa and Viterbo, Italy; Littlehampton, UK) 81–85

Improvement of protoplast regeneration from a recalcitrant inbred line of *Brassica oleracea*: a morphogenetic analysis
P.F. Fransz, E.H.M. Leunissen, F.A. Van Eeuwijk, P.L.C. Keizer, T.M. Colijn-Hooymans (Wageningen, The Netherlands) 87–95

Salt tolerant plants of Lucerne (*Medicago media* Pers.) regenerated from salt-selected suspension cultures
M.T. Chaudhary, S.J. Wainwright, M.J. Merrett, Md. Shah-E-Alam (Swansea, UK; Bangladesh, India) 97–102

0168-9452/94/$07.00 © 1994 Elsevier Science Ireland Ltd. All rights reserved.

GENERAL

The effect of cultivar, maturity and storage on photo-induced changes in the total glycoalkaloid and chlorophyll contents of potatoes (*Solanum tuberosum*)
D.W. Griffiths, M.F.B. Dale, H. Bain (Dundee, UK) 103–109

Book reviews 111–113
Announcement 115

PHYSIOLOGY AND BIOCHEMISTRY

Gas exchange and carbon balance in peach leaves infected by *Taphrina deformans*
V. Raggi (Perugia, Italy) 117–126
Changes in fatty acids composition of subcellular fractions from hypocotyls of winter rape growing at 2°C or 20°C
A. Skoczowski, M. Filek (Krakow, Poland) 127–133
On protochlorophyllide as the photoreceptor responsible for resumption of its own synthesis in etiolated cucumber cotyledons
L.I. Fradkin, V.P. Domanskii (Minsk, Belarus) 135–140
Mechanism of Mn^{II} oxidation by the extrinsic 33 kDa protein of photosystem II
M.K. Raval, N.K. Ramaswamy, P.M. Nair (Bombay, India) 141–150

GENETICS AND MOLECULAR BIOLOGY

Maize *Shrunken-1* intron and exon regions increase gene expression in maize protoplasts
M. Clancy, V. Vasil, L.C. Hannah. I.K. Vasil (Gainesville, FL) 151–161
Bean class IV chitinase gene: structure, developmental expression and induction by heat stress
M. Margis-Pinheiro, J. Marivet, G. Burkard (Strasbourg, France) 163–173
The firefly luciferase gene as a reporter for in vivo detection of *Ac* transposition in tomato plants
Y.-C. Charng, A.J.P. Pfitzner (Munich, Germany) 175–183

CELL TISSUE STUDIES IN VITRO

Rice cell cryopreservation: the influence of culture methods and the embryogenic potential of cell suspensions on post-thaw recovery
P.T. Lynch, E.E. Benson, J. Jones, E.C. Cocking, J.B. Power, M.R. Davey (Nottingham, UK) ... 185–192
In vitro plant regeneration of scented-leaved geranium *Pelargonium graveolens*
P.V. Lakshmana Rao (Tezpur, India) 193–198
Micropropagation and embryoid formation from young leaves of *Bambusa glaucescens* 'Golden goddess'
F. Jullien, K. Tran Thanh Van (Orsay, France) 199–207
Studies on the chromosome doubling of wheat pollen plants
J.-W. Ouyang, H. Liang, S.-E Jia, C. Zhang, T.-H. Zhao, L.-Z. He, X. Jia (Beijing, China) 209–214

Subject index (Volume 98) 215–218
Author index (Volume 98) 219
Volume contents (Volume 98) 221–222